

uFMC25 & BAM_FMC Status

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Follow-up Meeting on MTCA.4 Board Development (WP18)

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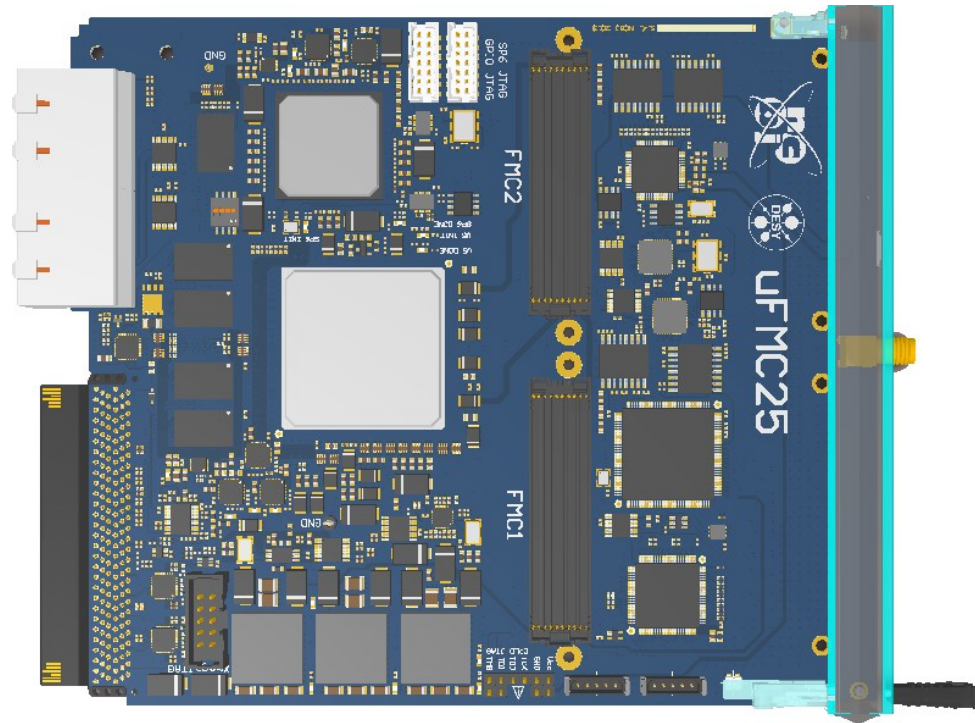
uFMC25 status

- uFMC25v1 prototype board so far seems to have no bugs or problems, and it is used for testing now
- Major VHDL cores, like PCI Express, has been tested
- It works with FMC mezzanines



uFMC25 status

- uFMC25v2 is in production now (ILFA)
- 2 pieces will be produced in the first shot
- All together 8 boards will be produced
- Components are ordered

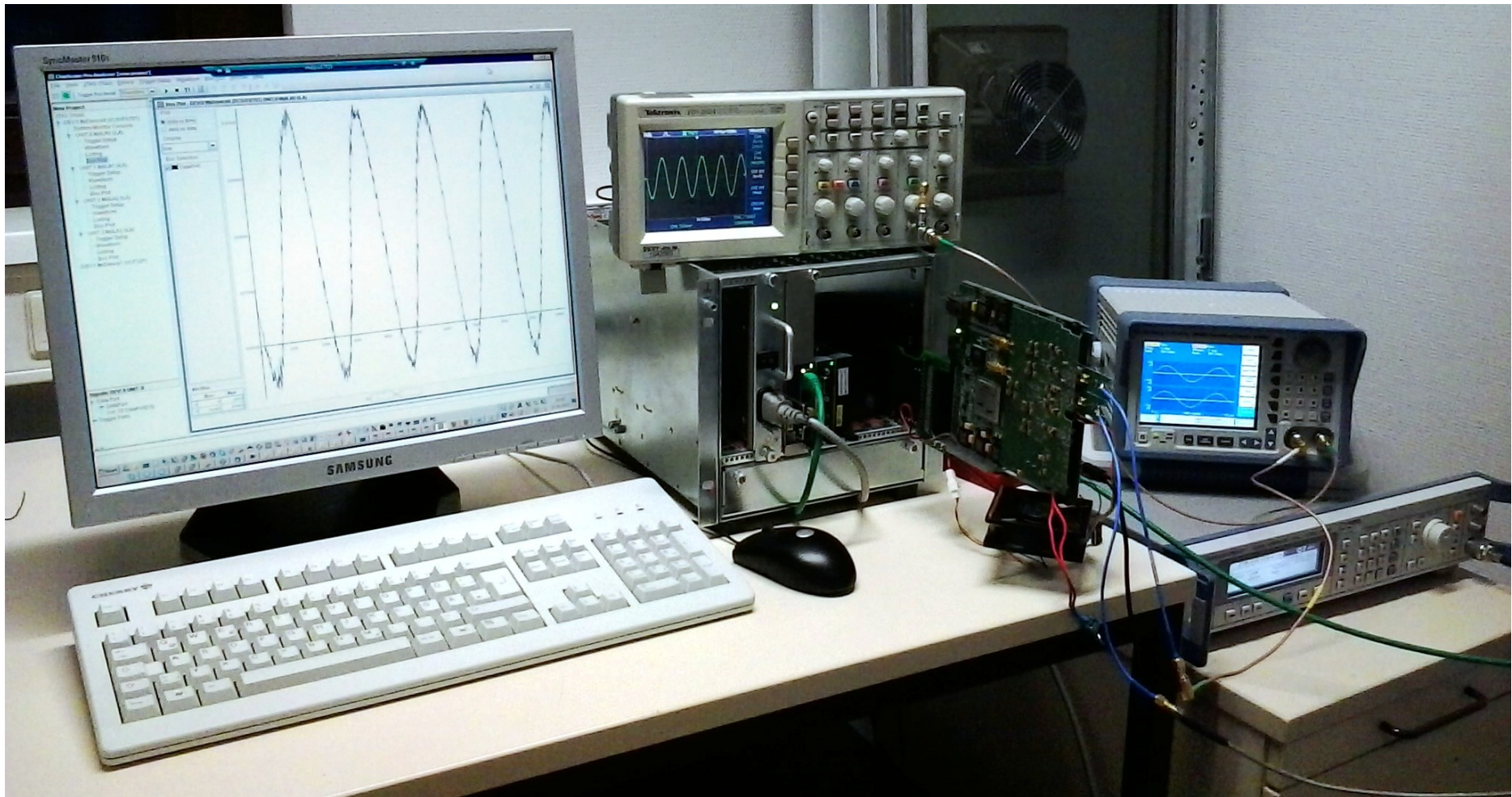


BAM FMC prototype status

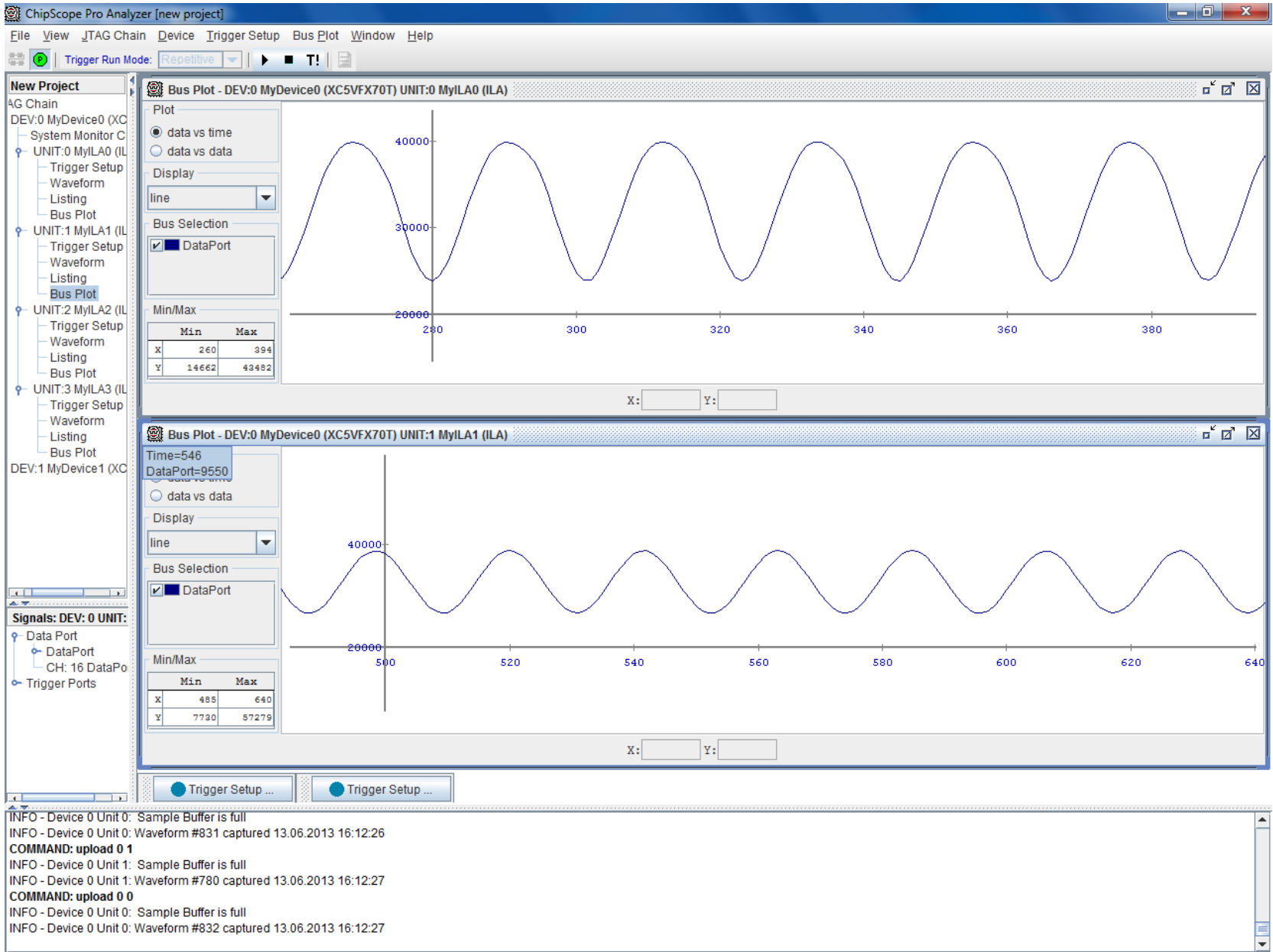
- Board has been fixed by (some SMD components were missing)
- 3 ADC are OK
- 1 ADC channel has problem (amplifier saturated?)
- New version (with PDs) is being designed now (using Altium Designer instead of Mentor Graphics)



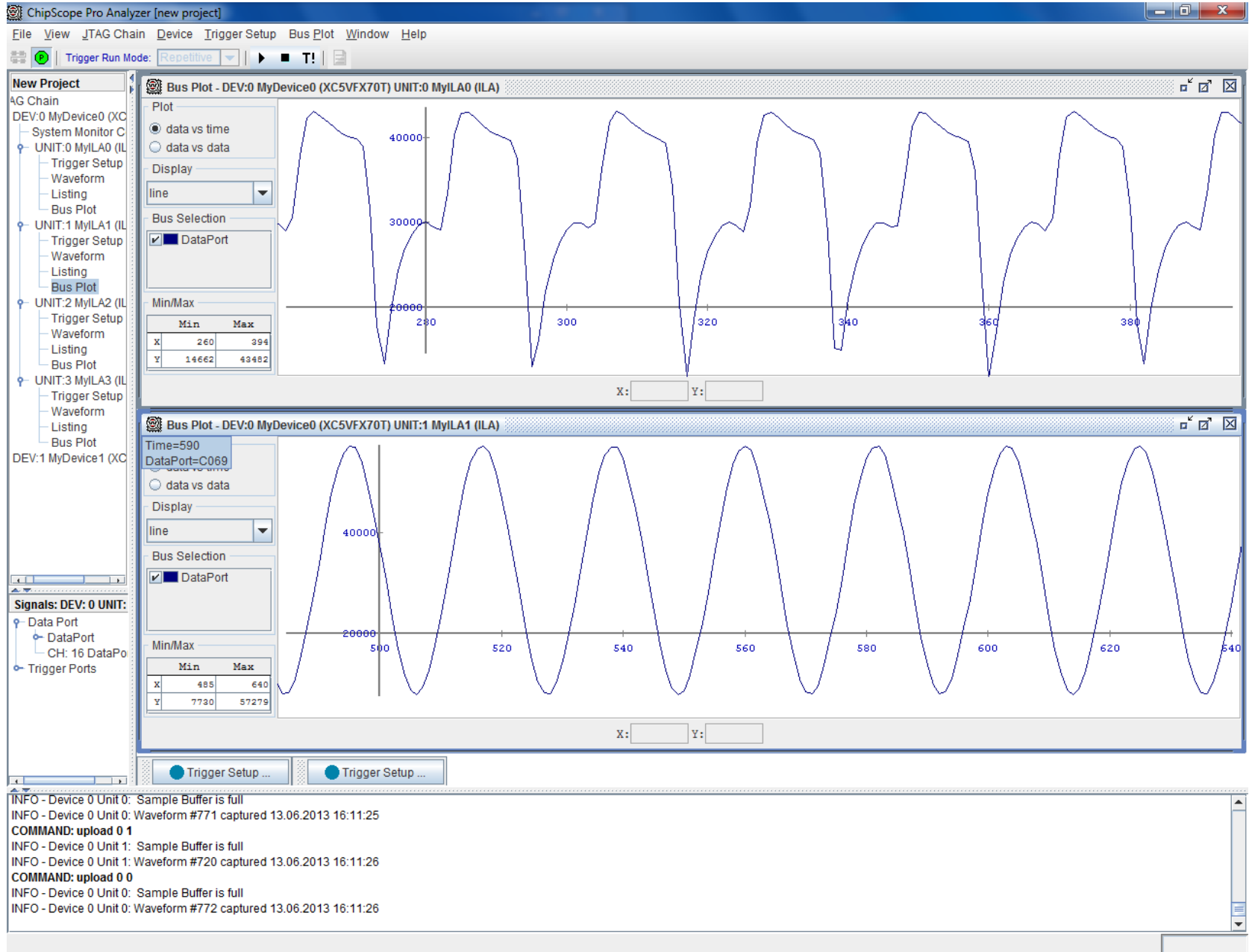
uFMC25 & BAM_FMC testing



BAM FMC: ADC0 & ADC1 readout @ 1Vpp



BAM FMC: ADC0 & ADC1 readout @ 4Vpp



Plans

- Existing prototype setup: uFMC25v1, BAM_FMC
 - Commission the analog readout (JS, SBH)
 - Connect PDs and test it with the laser pulses at OCAS (JS, MKC)
 - Port / remake ACB firmware and software - acb_server & bam_server (JS)
 - Close one beam feedback loop in FLASH

Plans

- New versions: uFMC25v2, new BAM_FMC
 - Finish the new BAM_FMC PCB (GB, SK)
 - New BAM_FMC commissioning (JS, GB, SBH)
 - uFMC25v2 board commissioning (JS, GB)
 - Testing with the laser pulses
 - Firmware & Software porting
 - Permanent installation in FLASH

The End

Thank You